

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26112

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C23C 16/00, 16/06, 16/455; C30B 25/02

US CL : 118/715, 730; 156/345.34, 345.55; 427/248.1, 250, 251, 255.23, 255.28, 255.5; 216/1; 117/88, 107

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,993,358 A (MAHAWIL) 19 February 1991 (19.02.1991), entire document.	1-26
X	US 5,269,847 A (ANDERSON ET AL) 14 December 1993 (14.12.1993), entire document.	1-4, 10-14, 16-26



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

08 December 2003 (08.12.2003)

Date of mailing of the international search report

06 FEB 2004

Name and mailing address of the ISA/US

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## Continuation of Item 4 of the first sheet:

Vertical is spelled "verical". The new title is: ALKYL PUSH FLOW FOR VERTICAL FLOW ROTATING DISK REACTORS

## Continuation of B. FIELDS SEARCHED Item 1:

118/715, 728-730; 156/345.33, 345.34, 345.51, 345.54, 345.55; 427/248.1, 250, 251, 255.23, 255.28, 255.5; 216/1; 438/584, 689; 117/88, 105, 107

## Continuation of B. FIELDS SEARCHED Item 3:

USPAT, US-PGPUB, EPO, JPO, DERWENT, IBM\_TDB

search terms: gas inlet, carrier gas, inert gas, reactant gas, reaction gas, precursor gas, uniform velocity, radial distance, reactant gas per unit time per unit area,